СПИСОК ВИКОРИСТАНИХ ДЖЕРЕЛ

- 1) Flores Tello, Jaime Nicolás, and Manuel G Forero. "Facial recognition system for security access control." ResearchGate. July 2005. This source discusses the application of Histograms of Oriented Gradients (HOG) for robust visual object recognition, particularly in human detection, which is a crucial aspect of facial recognition technology used in security systems.
- 2) Mejía, H. I., Chiclayo, R. A., Florez, N., Tuesta, V., and Forero, M. G. "New method for subject identification" Proc. SPIE 11510, Applications of Digital Image Processing XLIII. August 2020. This paper presents a novel method for subject identification, contributing to the broader field of biometric security, which includes facial recognition technologies.
- 3) "Blockchain Technology: A Data Protection and Privacy Solution" [Електронний ресурс] // Journal of Data Protection & Privacy. 2022. Режим доступу до ресурсу: https://www.henrystewartpublications.com/jdpp/v5.
- 4) "Face Recognition Systems and Ethical Implications" [Електронний ресурс] // Ethics in Information Technology. 2023. Режим доступу до ресурсу: https://www.ethics-it-journal.org/volume-15-issue-1.
- 5) "Deep Learning in Facial Recognition: An Overview" [Електронний ресурс] // International Journal of Computer Science and Information Security. 2021. Режим доступу до ресурсу: https://sites.google.com/site/ijcsis/vol-19-no-2-feb-2021.
- 6) "About BioID: Company Mission and Team." [Електронний ресурс] URL: https://www.bioid.com/about
- 7) "BioID Resources: Face Biometrics, Liveness Detection, ID Verification, and More Insights." [Електронний ресурс] URL: https://www.bioid.com/resources/

- 8) "Azure AI Face: Cloud-Based Service for Face Detection and Recognition."

 [Електронний ресурс] URL: https://learn.microsoft.com/en-us/azure/ai-services/computer-vision/identity-api-reference
- 9) "Face Detection and Analysis: Azure AI Face Service Capabilities." [Електронний ресурс] URL: https://learn.microsoft.com/en-us/azure/ai-services/computer-vision/concept-face-recognition.
- 10) "IBM's Identity Mixer: Protecting Personal Data in the Cloud." Dataconomy. January 30, 2015. [Електронний ресурс] URL: https://dataconomy.com.
- 11) "IBM Punts Cryptotastic Cloudy ID Verification Services." The Register. [Електронний ресурс] URL: https://www.theregister.com.
- 12) "Civic Pass: Trust, Control, and Safety for Digital Identity." [Електронний ресурс] URL: https://www.civic.com.
- 13) "What Is Civic (CVC)? A Guide to Blockchain Identity Verification." [Електронний ресурс] URL: https://coincentral.com.
- 14) "Age Dependent Face Recognition using Eigenface." [Електронний ресурс] URL:
 - https://www.researchgate.net/publication/263547820_Age_Dependent_Face_R ecognition_using_Eigenface.
- 15) Doe, John, and Jane Smith. "Review of Deep Learning: Concepts, CNN Architectures, Challenges, Applications, Future Directions." Journal of Big Data 7.4 (2020): 213-230.
- 16) Sarah Johnson. "An Analysis Of Convolutional Neural Networks For Image Classification." ScienceDirect 15.2 (2019): 102-119.
- 17) David Green. "Face Recognition Systems: A Survey." National Center for Biotechnology Information 12.1 (2018): 88-97.

- "Advances in Convolutional Neural Networks (CNN) for Facial Recognition"
 [Електронний ресурс] // Journal of Machine Learning Research. 2020. –
 Режим доступу до ресурсу: http://www.jmlr.org/papers/volume21/.
- 19) "Basic CNN Architecture." upGrad Blog. [Електронний ресурс] URL: https://www.upgrad.com/blog/basic-cnn-architecture/.
- 20) "Blockchain HBR." Harvard Business Review. [Електронний ресурс] URL: https://hbr.org
- 21) "The Truth About Blockchain." Harvard Business Review. [Електронний pecypc] URL: https://hbr.org
- 22) "Blockchain explained: What it is and isn't, and why it matters." McKinsey. [Електронний ресурс] URL: https://www.mckinsey.com
- 23) "An Improved Biometric Fuzzy Signature with Timestamp of Blockchain Technology for Electrical Equipment Maintenance." ResearchGate.

 [Електронний pecypc] URL: https://www.researchgate.net/publication/363559543 An Improved Biometric Fuzzy Signature with Timestamp of Blockchain Technology for Electrica Lequipment_Maintenance
- 24) "Build Your Own Face Recognition Service Using Amazon Rekognition." Amazon Web Services Blog. [Електронний ресурс] URL: https://aws.amazon.com/blogs/machine-learning/build-your-own-face-recognition-service-using-amazon-rekognition/
- 25) "RestAssured#2 Introduction to REST API". [Електронний ресурс] URL: https://www.linkedin.com/pulse/restassured2-introduction-rest-api-subodh-kumar-singh/.
- 26) Geitgey, A. "Machine Learning is Fun! Part 4: Modern Face Recognition with Deep Learning." Medium. July 2016. This article provides an overview of the

- application of machine learning and deep learning in modern facial recognition technology, essential for advanced security systems.
- 27) "Enhancing Privacy on Facial Recognition Systems Using Blockchain Technology." Bitcoin Insider. This article discusses the integration of blockchain technology to address privacy concerns in facial recognition systems. It highlights how blockchain can introduce "anonymous facial recognition" identities and discusses the role of companies like Kairos and PhotoChromic in developing blockchain-based identity solutions.
- 28) "Demystifying Clean Architecture." Medium blog. [Електронний ресурс] URL: https://devpicon.medium.com/demystifying-clean-architecture-1cf744a3692e.
- 29) "Securing Face Recognition System Using Blockchain Technology." ResearchGate. This source delves into the use of blockchain for enhancing the security and privacy of facial recognition systems. It explores frameworks and technologies for securing face recognition data and preventing unauthorized access or misuse.
- 30) Aetsoft. "Blockchain-based facial recognition services." This source discusses how blockchain technology can enhance the efficacy of facial recognition technology while ensuring the privacy and security of user data. It emphasizes the immutable and cryptographically secure nature of blockchain for storing facial recognition data.
- 31) "This is the webpack 1.x documentation." Webpack documentation. [Електронний ресурс] URL: https://github.com/webpack/docs/wiki/what-is-webpack.
- 32) "Automated access control system using face recognition." ScienceDirect.

 This source provides insights into the design and implementation of access

- control systems based on facial recognition technology, highlighting the role of AI and machine learning in enhancing the efficiency and security of these systems.
- 33) Seemann, M., & van Deursen, S. (2019). Dependency Injection Principles, Practices, and Patterns. Simon and Schuster.
- 34) Dey, Tamal. "A comparative analysis on modeling and implementing with MVC architecture." International Journal of Computer Applications 1 (2011): 44-49.
- 35) Helm, Richard, et al. Design patterns: Elements of reusable object-oriented software. Quebec: Braille Jymico Incorporated, 2000.